Corrosion Monitoring and Control - Best Management Practices

FY2003 Request: **$200,000**
Reference No: **35822**

AP/AL: Appropriation
Category: Health/Safety
Location: Statewide
Election District: Statewide
Estimated Project Dates: 07/01/2002 - 06/30/2007

Project Type: Health and Safety

Contact: Larry Dietrick
Contact Phone: (907)465-5250

Brief Summary and Statement of Need:
This project provides funding for a technical review of corrosion monitoring and control technologies specific to Alaska's industrial operations, and will result in the development of a manual on the subject for use by the regulated community and other interested stakeholders. Due to the aging of the oil industry infrastructure in Alaska, corrosion-related failures are becoming a more common cause of spills. The best opportunity to mitigate the effects of oil spills on public health and the environment is through an aggressive oil spill prevention program. Corrosion monitoring, corrosion control, and leak-detection technologies are critical parts of such a program.

Funding:

	FY2003	FY2004	FY2005	FY2006	FY2007	FY2008	Total
Oil/Haz Fd	$200,000						$200,000
Total:	$200,000	$0	$0	$0	$0	$0	$200,000

☐ State Match Required ☒ One-Time Project ☐ Phased Project ☐ On-Going Project
0% = Minimum State Match % Required ☐ Amendment ☐ Mental Health Bill

Operating & Maintenance Costs:

	Amount	Staff
Total Operating Impact:	0	0
One-Time Startup Costs:	0	
Additional Estimated Annual O&M:	0	0

Prior Funding History / Additional Information:
No prior funding.

Corrosion Monitoring and Control Best Management Practices - $200,000

This project funds a technical review of corrosion monitoring and control technologies applicable to Alaska's oil industry operations. Corrosion-related failures are becoming an increasingly common cause of oil spills due to the aging of Alaska's industrial infrastructure. Department guidance to industry is needed on this critical issue to properly maintain the existing infrastructure and prevent future spills.

The department will prepare a manual on corrosion monitoring and control technologies which can be used by the regulated community and other stakeholders. This guide will not only provide a technical reference tool for Alaskan industry, it will also function as a training resource and clear set of guidelines for regulators, improving their technical knowledge and ability to provide compliance assistance to the regulated community. Those Alaska businesses without the in-house technical expertise or financial resources to conduct this research on their own will use this manual to improve operations and prevent spills.

A number of corrosion monitoring and control techniques can be used in Alaska. The strengths and weaknesses of each technique, and its potential for effective use in Alaska, will be examined in detail. Subjects will include cathodic protection and other corrosion control methods for oil storage tank bottoms, corrosion surveys of buried lines, protective coatings and cathodic protection for pipelines, maintenance and corrosion control practices for piping, and other related topics. Funding will be used to contract with a subject matter expert to prepare the technical review and publish the final document.